L2: Entry 1 of 5 File: DWPI May 13, 2004

DERWENT-ACC-NO: 2004-411278
DERWENT-WEEK: 200438


TITLE: Treating porcine respiratory and reproductive syndrome in pigs, comprises administration of immunoglobulins, preferably obtained from yolks of eggs from virus-hyperimmunized hens

INVENTOR: LUCIO DECANINI, E; MORALES GARZON, J A

PRIORITY-DATA: 2002MX-0011761 (October 30, 2002)



PATENT-FAMILY:

| | PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|---|
| ☐ | WO 2004039402 A2 | May 13, 2004 | S | 010 | A61K039/42 |

INT-CL (IPC): A61 K 39/42; C07 K 16/02

ABSTRACTED-PUB-NO: WO2004039402A
BASIC-ABSTRACT:

NOVELTY - The use of immunoglobulins (I) is claimed in the treatment of pigs affected with porcine respiratory and reproductive syndrome (PRRS) virus.

ACTIVITY - Virucide.

One of three pigs (50 days old and weighing ca. 20 kg) was injected intramuscularly with 5 ml of a preparation containing immunoglobulin (I) against PRRS virus (obtained from the yolks of eggs from PRRS virus-hyperimmunized hens by the method described in Poultry Sci., 72, 275-281, 1993). A second pig was injected with 10 ml of the immunoglobulin preparation, and the third (control) was untreated. The levels of antibodies against (I) in the blood were determined over the next 4 weeks. The titers of (I) were ca. 5200, 1300, 100 and zero after 1, 2, 3 and 4 weeks respectively after treatment with 0.4 ml/kg of the preparation; ca. 5200, 5200, 200 and zero after 1, 2, 3 and 4 weeks respectively after treatment with 0.8 ml/kg of the preparation; and zero in all cases without treatment.

MECHANISM OF ACTION - Antiviral antibody preparation.

USE - (I) are useful for reducing mortality in pigs affected by PRRS and for providing protection against PRRS virus (all claimed). More generally (I) are useful for prevention and treatment of PRRS in pigs, reducing mortality, inhibiting transmission, and combating reduction in weight gain.

ADVANTAGE - (I) are retained in the bloodstream of treated animals, and have a good therapeutic and protective effect. The preferred (I), obtained from the yolks of

eggs from PRRS virus-hyperimmunized hens, are inexpensive and do not bond to complement or Staphylococcus aureus protein A, react with rheumatoid factor or cross-react with mammalian antibodies.

ABSTRACTED-PUB-NO: WO2004039402A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/2

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L11 ANSWER 3 OF 6 MEDLINE on STN
AN 92329989 MEDLINE
DN PubMed ID: 1821163
TI Isolation and characterization of **egg yolk antibodies** IgY from hens immunized with different influenza **virus** strains.
AU Cuceanu N; Constantinescu C; Ionita E
CS Cantacuzino Institute, Bucharest, Romania.
SO Roumanian archives of microbiology and immunology, (1991 Jul-Sep) 50 (3) 215-22.
Journal code: 9204717. ISSN: 1222-3891.
CY Romania
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199208
ED Entered STN: 19920904
Last Updated on STN: 19970203
Entered Medline: 19920819
AB A comparison of two precipitation methods of IgY from normal hen eggs was made. For method I the precipitation agent is represented by PEG 6000, and for method II by organic solvents. The comparative study of some parameters (protein concentration, ovalbumin content, presence of non-specific inhibitors, PAA-gel electrophoresis) shows that method I is more efficient and more convenient than method II. Using this method, we isolated and characterized IgY preparations from hens immunized with circulating influenza **virus** strains: A/Singapore/6/86 (H1N1), A/Shanghai/11/87 (H3N2) B/Beijing/1/87 and B/Yamagata/16/88 These viral IgY antibody preparations are homogeneous, lacking anti-host cell antibodies and non-specific inhibitors. Their NI titres and HI titres are higher than those found in the sera of immunized birds.
CT Check Tags: Comparative Study; Female
Animals
Antibodies: AN, analysis
*Antibodies: IP, isolation & purification

PubMed ID: 1887700

TI Chicken egg antibodies for prophylaxis and therapy of infectious intestinal diseases. V. In vivo studies on protective effects against Escherichia coli diarrhea in pigs.

AU Wiedemann V; Linckh E; Kuhlmann R; Schmidt P; Losch U

CS Institut fur Physiologie, Physiologische Chemie und Ernahrungsphysiologie, Tierarztliche Fakultat, Universitat Munchen, FRG.

SO Zentralblatt fur Veterinarmedizin. Reihe B. Journal of veterinary medicine. Series B, (1991 Jun) 38 (4) 283-91.
Journal code: 0331325. ISSN: 0514-7166.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199110

ED Entered STN: 19911027
Last Updated on STN: 20030218
Entered Medline: 19911007

AB A field study and a controlled infection trial showed the protective effect of egg yolk lyophilisate and whole egg lyophilisate against enterotoxic E. coli germs. The lyophilisates were gained from eggs of hens immunized against pilus antigen of **porcine**-enterotoxic E. coli. In a first field study using **egg yolk antibodies**, 92% of 299 diarrhea affected piglets were cured. In a further field study diarrhea affected piglets were cured after 3 days by application of egg yolk lyophilisate from immunized hens. Piglets treated only with egg yolk of not immunized hens showed no signs of recovery. The infection trial showed, that whole egg lyophilisate of immunized hens was as successful as a common antibiotic therapy in curing piglets, orally infected with 5 x 10(10) E. coli/feeding and animal. The present data show that chicken egg antibodies can be used for treatment of infectious diarrheal diseases in young animals. So far they represent a good alternative to the common used antibiotic therapy.

CT Animals
*Antibodies: TU, therapeutic use
Chickens
Diarrhea: PC, prevention & control

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d his

     (FILE 'HOME' ENTERED AT 13:50:03 ON 13 SEP 2004)

     FILE 'MEDLINE' ENTERED AT 13:50:13 ON 13 SEP 2004
L1            62 S EGG YOLK ANTIBODIES
L2           447 S PRRSV
L3             0 S L1 AND L2
L4           287 S IGY
L5             0 S L4 AND L2
L6             0 S MYSTORY SWINE VIRUS
L7             0 S MYSTERY SWINE VIRUS
L8            12 S MYSTERY SWINE DISEASE
L9             0 S L4 AND L8
L10            0 S L1 AND L8
L11            6 S L1 AND VIRUS
L12            5 S L1 AND PORCINE
               E GARZON J A M/AU
L13          100 S E1
L14            0 S VIRUS AND L13
               E DECANINI E L
               E DECANINI E L/AU
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# Hit List

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**Search Results** - Record(s) 1 through 2 of 2 returned.

☑ 1. Document ID: US 20030086945 A1, WO 200159077 A1, EP 1255815 A1

L25: Entry 1 of 2 File: DWPI May 8, 2003

DERWENT-ACC-NO: 2001-514657
DERWENT-WEEK: 200337
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TITLE: Isolated porcine reproductive and respiratory syndrome virus useful for production of antibodies, comprises RNA polynucleotide with specified sequence

INVENTOR: COLLINS, J E; FAABERG, K S ; ROSSOW, K D

PRIORITY-DATA: 2001US-260041P (January 5, 2001), 2000US-181041P (February 8, 2000), 2000US-193220P (March 30, 2000), 2000US-206624P (May 24, 2000), 2000US-215373P (June 29, 2000), 2002US-0203224 (August 7, 2002)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| US 20030086945 A1 | May 8, 2003 | | 000 | C12Q001/70 |
| WO 200159077 A1 | August 16, 2001 | E | 074 | C12N007/00 |
| EP 1255815 A1 | November 13, 2002 | E | 000 | C12N007/00 |

INT-CL (IPC): A61 K 39/12; A61 K 39/42; A61 P 31/14; C07 H 21/04; C07 K 14/05; C07 K 14/08; C12 N 7/00; C12 N 15/40; C12 N 15/86; C12 Q 1/68; C12 Q 1/70; G01 N 33/569

Full | Title | Citation | Front | Review | Classification | Date | Reference | [illegible] | Claims | KWIC | Draw D

☐ 2. Document ID: JP 2002540798 W, WO 200060109 A1, EP 1255850 A1

L25: Entry 2 of 2 File: DWPI Dec 3, 2002

DERWENT-ACC-NO: 2000-656233
DERWENT-WEEK: 200309
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TITLE: Detecting a predisposition to or a progression of cancer especially breast cancer in humans comprises detecting levels of CYP24 in a biological sample

INVENTOR: ALBERTSON, D G; COLLINS, C ; GRAY, J W ; PINKEL, D ; YSTRA, B

PRIORITY-DATA: 1999US-0285292 (April 2, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| JP 2002540798 W | December 3, 2002 | | 093 | C12N015/09 |
| WO 200060109 A1 | October 12, 2000 | E | 073 | C12Q001/00 |
| EP 1255850 A1 | November 13, 2002 | E | 000 | C12Q001/00 |

INT-CL (IPC): A61 K 31/59; A61 K 31/7105; A61 K 31/711; A61 K 38/00; A61 K 45/00; A61 K 48/00; A61 P 35/00; A61 P 35/04 ; C12 N 5/00; C12 N 5/06; C12 N 5/08; C12 N 9/00; C12 N 15/09; C12 Q 1/00; C12 Q 1/02; C12 Q 1/24; C12 Q 1/25; C12 Q 1/26; C12 Q 1/68; G01 N 1/00; G01 N 1/10; G01 N 31/00; G01 N 31/10; G01 N 33/15; G01 N 33/48; G01 N 33/483; G01 N 33/487; G01 N 33/49; G01 N 33/493; G01 N 33/50; G01 N 33/53; G01 N 33/566 ; G01 N 33/573; G01 N 33/574



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| Terms | Documents |
|---|---|
| collins.in. and porcine | 2 |

**Display Format:** CIT Change Format

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# WEST Search History

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DATE: Monday, September 13, 2004

| Hide? | Set Name | Query | Hit Count |
|---|---|---|---|
| | | *DB=DWPI; PLUR=YES; OP=ADJ* | |
| ☐ | L35 | Garzon.in. and virus | 2 |
| ☐ | L34 | Garzon.in. | 36 |
| ☐ | L33 | PRRSV and egg yolk antibodies | 0 |
| | | *DB=JPAB; PLUR=YES; OP=ADJ* | |
| ☐ | L32 | PRRSV and egg yolk antibodies | 0 |
| | | *DB=EPAB; PLUR=YES; OP=ADJ* | |
| ☐ | L31 | PRRSV and egg yolk antibodies | 0 |
| | | *DB=PGPB; PLUR=YES; OP=ADJ* | |
| ☐ | L30 | PRRSV and egg yolk antibodies | 0 |
| ☐ | L29 | PRRSV and IgY | 0 |
| | | *DB=EPAB; PLUR=YES; OP=ADJ* | |
| ☐ | L28 | WO-9636356-A1.did. | 1 |
| ☐ | L27 | WO-9636356-A1.did. | 1 |
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| ☐ | L26 | Chladek .in. and porcine | 1 |
| ☐ | L25 | collins .in. and porcine | 2 |
| | | *DB=USPT; PLUR=YES; OP=ADJ* | |
| ☐ | L24 | collins james.in. and porcine | 5 |
| ☐ | L23 | Chladek Danny W.in. and porcine | 10 |
| ☐ | L22 | Chladek Danny W.in. and prrsv | 4 |
| ☐ | L21 | collins.in. and prrsv | 2 |
| ☐ | L20 | collines.in. and prrsv | 0 |
| ☐ | L19 | 6217865.pn. and virus | 1 |
| ☐ | L18 | PRRSV and IgY | 0 |
| ☐ | L17 | porcine reproductive and respiratory syndrome and IgY | 0 |
| ☐ | L16 | porcine reproductive and respiratory syndrome and egg yolk antibodies | 0 |
| ☐ | L15 | porcine reproductive and respiratory syndrome | 77 |
| ☐ | L14 | egg yolk antibodies and pig? | 12 |
| ☐ | L13 | egg yolk antibodies | 63 |
| ☐ | L12 | egg yolk antibodies and PRRSV | 0 |
| ☐ | L11 | chicken antibody and virus.clm. | 14 |

| | | | |
|---|---|---|---|
| ☐ | L10 | chicken antibody and virus | 71 |
| ☐ | L9 | chicken antibody and PRRSV | 0 |
| ☐ | L8 | cheicken antibody and PRRSV | 0 |
| ☐ | L7 | egg yolk and PRRSV | 0 |
| ☐ | L6 | egg yolk and virus | 538 |
| ☐ | L5 | Ig Y and PRRSV | 0 |
| | *DB=DWPI; PLUR=YES; OP=ADJ* | | |
| ☐ | L4 | Ig Y and PRRSV | 0 |
| ☐ | L3 | yolks of eggs and PRRSV | 0 |
| ☐ | L2 | Decanini.in. | 5 |
| ☐ | L1 | Decanini e d.in. | 0 |

END OF SEARCH HISTORY

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**1:** Larsson A, Carlander D. Related Articles, Links

Oral immunotherapy with yolk antibodies to prevent infections in humans and animals.
Ups J Med Sci. 2003;108(2):129-40. Review.
PMID: 14649324 [PubMed - indexed for MEDLINE]

**2:** Carlander D, Kollberg H, Wejaker PE, Larsson A. Related Articles, Links

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Immunol Res. 2000;21(1):1-6. Review.
PMID: 10803878 [PubMed - indexed for MEDLINE]

**3:** Mine Y, Kovacs-Nolan J. Related Articles, Links

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J Med Food. 2002 Fall;5(3):159-69. Review.
PMID: 12495588 [PubMed - indexed for MEDLINE]

**4:** Carlander D, Kollberg H, Larsson A. Related Articles, Links

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**5:** Sasse M, Kruger M, Schade R, Hlinak A. Related Articles, Links

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**6:** Keller MA, Stiehm ER. Related Articles, Links

Passive immunity in prevention and treatment of infectious diseases.
Clin Microbiol Rev. 2000 Oct;13(4):602-14. Review.
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**7:** Li X, Nakano T, Sunwoo HH, Paek BH, Chae HS, Sim JS. Related Articles, Links

Effects of egg and yolk weights on yolk antibody (IgY) production in laying chickens.
Poult Sci. 1998 Feb;77(2):266-70.
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**8:** Tokarzewski S. Related Articles, Links

Influence of enrofloxacin and chloramphenicol on the level of IgY in serum and egg yolk after immunostimulation of hens with Salmonella enteritidis antigens.
Pol J Vet Sci. 2002;5(3):151-8.
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☐ 9: Chang HM, Ou-Yang RF, Chen YT, Chen CC. Related Articles, Links

Productivity and some properties of immunoglobulin specific against Streptococcus mutans serotype c in chicken egg yolk (IgY).
J Agric Food Chem. 1999 Jan;47(1):61-6.
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☐ 11: Chen CC, Tu YY, Chen TL, Chang HM. Related Articles, Links

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J Agric Food Chem. 2002 Sep 11;50(19):5424-8.
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☐ 12: Meng XJ, Meng MJ, Linlai XM, Zhou MQ, Wang XN. Related Articles, Links

[Preparation and identification of egg yolk antibodies against HLA-A* 0201 heavy chain]
Di Yi Jun Yi Da Xue Xue Bao. 2003 Nov;23(11):1188-90. Chinese.
PMID: 14625184 [PubMed - indexed for MEDLINE]

☐ 13: Sasse M, Hlinak A. Related Articles, Links

[Generation and characterization of avian vitelline antibodies against lipopolysaccharide and lipid A. 2. Investigations of specificity of egg yolk antibodies (IgY) against endotoxin]
Berl Munch Tierarztl Wochenschr. 1998 Apr;111(4):127-33. German.
PMID: 9581346 [PubMed - indexed for MEDLINE]

☐ 14: Kim WK, Patterson PH. Related Articles, Links

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Poult Sci. 2003 Oct;82(10):1554-8.
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☐ 15: Sugita-Konishi Y, Shibata K, Yun SS, Hara-Kudo Y, Yamaguchi K, Kumagai S. Related Articles, Links

Immune functions of immunoglobulin Y isolated from egg yolk of hens immunized with various infectious bacteria.
Biosci Biotechnol Biochem. 1996 May;60(5):886-8.
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Poult Sci. 2002 May;81(5):632-41.
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☐ **18:** Hatta H, Tsuda K, Ozeki M, Kim M, Yamamoto T, Otake S, Hirasawa M, Katz J, Childers NK, Michalek SM. Related Articles, Links

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Use of egg yolk-derived immunoglobulin as an alternative to antibiotic treatment for control of Helicobacter pylori infection.
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